

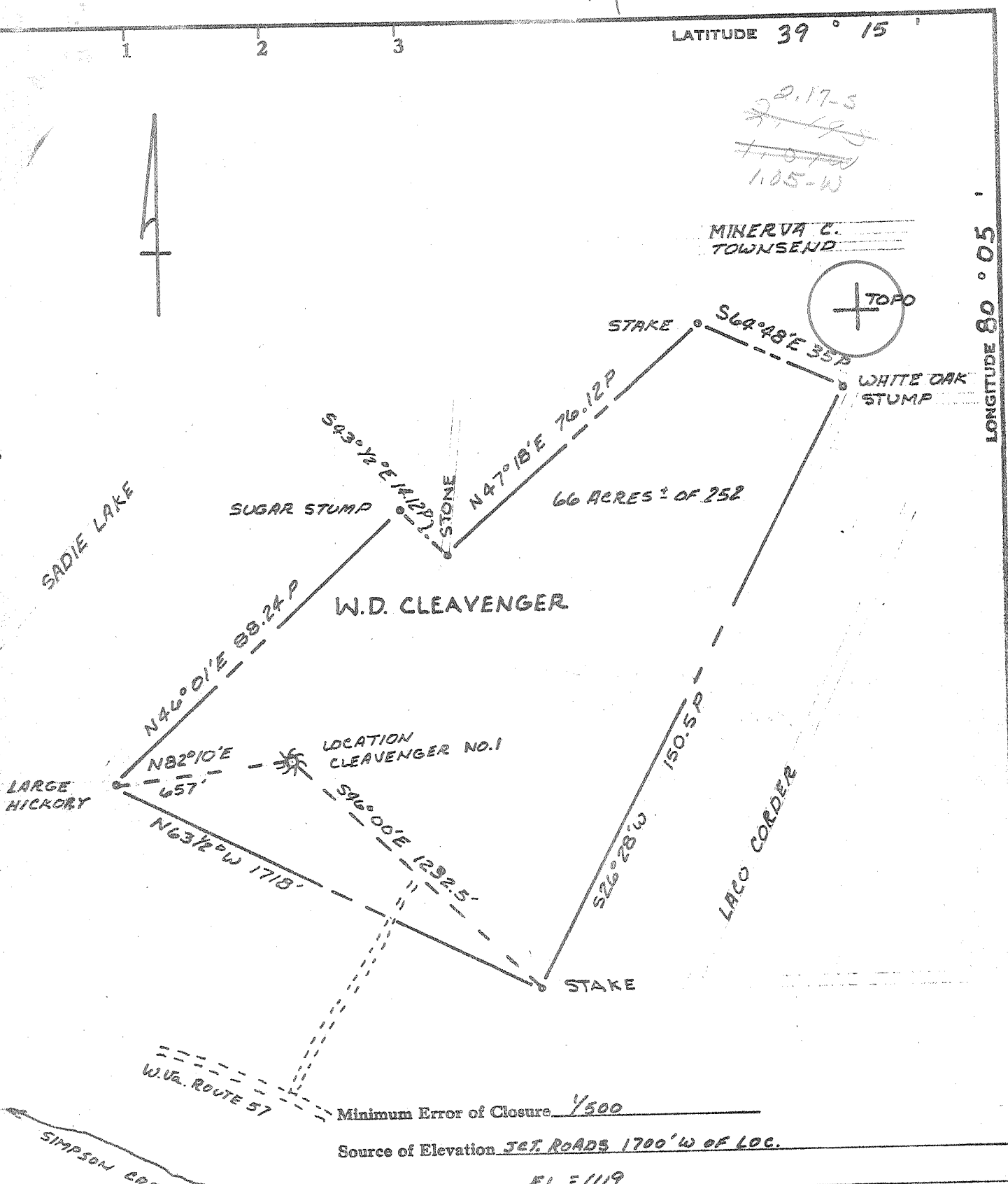
LATITUDE 39° 15'

LONGITUDE 80° 05'

2.17-5
~~2.17-5~~
~~1.05-W~~
 1.05-W



MINERVA C.
TOWNSHIP



- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Minimum Error of Closure $\frac{1}{500}$
 Source of Elevation J&T. ROADS 1700' W OF LOC.
 EL. = 1119

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Paul G. Dean
 Squares: N S E W

Map No.

Company UNION DRILLING, INC.
 Address BOX 347, BUCKHANNON, W. Va.
 Farm W.D. CLEAVENGER
 Tract _____ Acres 66 OF 252 Lease No. CAA-8082
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1325
 Quadrangle PHILIPPI NC
 County BARBOUR District PLEASANT
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136-12-10 Drawing No. 71-45
 Date AUG. 20, 1971 Scale 1" = 30P = 495'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. BAR-566

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Philippi
Permit No. BAR-566

Company <u>Union Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Box 347, Buckhannon, W. Va., 26201</u>	Size			
Farm <u>W. D. Cleavenger</u> Acres <u>66 of 252</u>	20-16			
Location (waters) <u>Simpson Creek</u>	Cond.			
Well No. <u>(1) # 258-CH</u> Elev. <u>1325'</u>	13-10" 13"	19'	19'	
District <u>Pleasant</u> County <u>Barbour</u>	9 5/8			
The surface of tract is owned in fee by _____	8 5/8	941'	941'	
<u>W. B. Cleavenger - Rt. 2, Box 156</u>	7			
Address <u>Flemington, W. Va.</u>	5 1/2			
Mineral rights are owned by <u>W. B. Cleavenger</u>	4 1/2	4500'	4500'	
<u>Rt. 2, B. 156</u> Address <u>Flemington, W. Va.</u>	3			
Drilling Commenced <u>9-18-71</u>	2			
Drilling Completed <u>9-25-71</u>	Liners Used			
Initial open flow <u>70,000</u> cu. ft. _____ bbls.				
Final production <u>1,500,000</u> cu. ft. per day _____ bbls.				
Well open <u>18</u> hrs. before test <u>1650</u> # RP.				

Well treatment details:

Attach copy of cementing record.

11-22-71 - Dowell - 2 Stages - Riley & Benson Sands
(1) 34,375 Gal. Waterfrac (2) 29,000 Gal. Waterfrac
78,000 Lbs Sand

1,500 Mcf

Coal was encountered at 890' - 895' Feet 60" Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Riley & Benson Depth Riley - 4127' - 4138'
Benson - 4420' - 4440'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	226		
Red Rock			226	265		
Sand & Shale			265	890		
Coal			890	895		
Sand & Shale			895	944		
Shale			944	960		
Sand			960	1020		
Sand & Shale			1020	1300		
Red Rock & Shale			1300	1365		
Red Rock, Sand & Shale			1365	1375		
Sand & Shale			1375	1404		
Red Rock, Sand & Shale			1404	1576		
Sand & Shale			1576	1590		
Big Lime			1590	1688		Big Lime 1590' - 1688'
Sand & Shale			1688	4127		
Riley Sand			4127	4138		
Sand & Shale			4138	4420		
Benson Sand			4420	4440		
Sand & Shale			4440	4546'		TOTAL DEPTH

RECEIVED
FEB 25 1972

(over)

* Indicates Electric Log tops in the remarks section.